SEQUENCE LISTING

```
<110>  Ovita Limited

<120>  Novel Muscle Growth Regulator

<130>  JC218744-142

<150>  NZ529860
<151>  2003-11-27

<160>  11

<170>  PatentIn version 3.1

<210>  1
<211>  576
<212>  DNA
<213>  Ovine

<400>  1
atggcgtgcg gggcgacact gaagcggccc atggagttcg aggcggcgct gctgagccct      60

ggctctccga agcggcggcg ctgcgcccct ctgtccggcc ccactccggg cctcaggccc     120

ccggacgccg aaccgccgcc gctgcttcag acgcagaccc caccgccgac tctgcagcag     180

cccgccccgc ccggcagcga gcggcgcctt ccaactccgg agcaaatttt tcagaacata     240

aaacaagaat atagtcgtta tcagaggtgg agacatttag aagttgttct taatcagagt     300

gaagcttgta cttcggaaag tcagcctcac tcctcagcac tcacagcacc tagttctcca     360

ggttcctcct ggatgaaaaa ggaccagccc acctttaccc tccgacaagt tggaataata     420

tgtgagcgtc tcttaaaaga ctatgaagat aaaattcggg aggaatatga gcaaatcctc     480

aatactaaac tagcagaaca atatgaatct tttgtgaaat tcacacatga tcagattatg     540

cgacgatatg ggacaaggcc aacaagctat gtatcc                                576

<210>  2
<211>  192
<212>  PRT
<213>  Ovine

<400>  2

Met Ala Cys Gly Ala Thr Leu Lys Arg Pro Met Glu Phe Glu Ala Ala
1               5                   10                  15

Leu Leu Ser Pro Gly Ser Pro Lys Arg Arg Arg Cys Ala Pro Leu Ser
            20                  25                  30

Gly Pro Thr Pro Gly Leu Arg Pro Pro Asp Ala Glu Pro Pro Pro Leu
        35                  40                  45

Leu Gln Thr Gln Thr Pro Pro Pro Thr Leu Gln Gln Pro Ala Pro Pro
    50                  55                  60

Gly Ser Glu Arg Arg Leu Pro Thr Pro Glu Gln Ile Phe Gln Asn Ile
65                  70                  75                  80

Lys Gln Glu Tyr Ser Arg Tyr Gln Arg Trp Arg His Leu Glu Val Val
                85                  90                  95
```

Leu Asn Gln Ser Glu Ala Cys Thr Ser Glu Ser Gln Pro His Ser Ser
100 105 110

Ala Leu Thr Ala Pro Ser Ser Pro Gly Ser Ser Trp Met Lys Lys Asp
115 120 125

Gln Pro Thr Phe Thr Leu Arg Gln Val Gly Ile Ile Cys Glu Arg Leu
130 135 140

Leu Lys Asp Tyr Glu Asp Lys Ile Arg Glu Glu Tyr Glu Gln Ile Leu
145 150 155 160

Asn Thr Lys Leu Ala Glu Gln Tyr Glu Ser Phe Val Lys Phe Thr His
165 170 175

Asp Gln Ile Met Arg Arg Tyr Gly Thr Arg Pro Thr Ser Tyr Val Ser
180 185 190

<210> 3
<211> 576
<212> DNA
<213> Bovine

<400> 3
atggcgtgcg gggcgacact gaagcggccc atggagttcg aggcggcgct gctgagccct 60

ggctctccga agcgacggcg ctgcgcccct ctgtccggcc ccactccggg cctcaggccc 120

ccggacgccg aaccgccacc gctgcttcag acgcagatcc caccgccgac tctgcagcag 180

cccgccccgc ccggcagcga ccggcgcctt ccaactccgg agcaaatttt tcagaacata 240

aaacaagaat atagtcgtta tcagaggtgg agacatttag aagttgttct taatcagagt 300

gaagcttgta cttcggaaag tcagcctcac tcctcaacac tcacagcacc tagttctcca 360

ggttcctcct ggatgaaaaa ggaccagccc acctttacgc tccgacaagt tggaataata 420

tgtgagcgtc tcttaaaaga ctatgaagat aaaattcggg aggaatatga gcaaatcctc 480

aatactaaac tagcagaaca atatgaatct tttgtgaaat tcacacatga tcagattatg 540

cgacgatatg ggacaaggcc aacaagctat gtatcc 576

<210> 4
<211> 192
<212> PRT
<213> Bovine

<400> 4

Met Ala Cys Gly Ala Thr Leu Lys Arg Pro Met Glu Phe Glu Ala Ala
1 5 10 15

Leu Leu Ser Pro Gly Ser Pro Lys Arg Arg Arg Cys Ala Pro Leu Ser
20 25 30

Gly Pro Thr Pro Gly Leu Arg Pro Pro Asp Ala Glu Pro Pro Pro Leu
35 40 45

Leu Gln Thr Gln Ile Pro Pro Pro Thr Leu Gln Gln Pro Ala Pro Pro
50 55 60

Gly Ser Asp Arg Arg Leu Pro Thr Pro Glu Gln Ile Phe Gln Asn Ile
65 70 75 80

Lys Gln Glu Tyr Ser Arg Tyr Gln Arg Trp Arg His Leu Glu Val Val

85 90 95

Leu Asn Gln Ser Glu Ala Cys Thr Ser Glu Ser Gln Pro His Ser Ser
100 105 110

Thr Leu Thr Ala Pro Ser Ser Pro Gly Ser Ser Trp Met Lys Lys Asp
115 120 125

Gln Pro Thr Phe Thr Leu Arg Gln Val Gly Ile Ile Cys Glu Arg Leu
130 135 140

Leu Lys Asp Tyr Glu Asp Lys Ile Arg Glu Glu Tyr Glu Gln Ile Leu
145 150 155 160

Asn Thr Lys Leu Ala Glu Gln Tyr Glu Ser Phe Val Lys Phe Thr His
165 170 175

Asp Gln Ile Met Arg Arg Tyr Gly Thr Arg Pro Thr Ser Tyr Val Ser
180 185 190

<210> 5
<211> 2071
<212> DNA
<213> mouse

<400> 5
ccacattcac tgtgcaagtc gtggggaaat acagatgaat aaaggcttcc ttgttattct 60

caaggaatgt atggttttga agcacagtta gacatatatt caaattacag cttcctcctt 120

taaaacacta atattccaag gcacactcaa tgttttaaag gatcacagag tgactaccaa 180

agcacgtagc aaaaccctac taagagaggt gtgtttaaaa tgactaccca agggacatac 240

ttttcaagtc ttctaatcgt tcactttgga tctgtttata ccacaagaaa acaatttact 300

tgatgctctt aggtcccctt aaaaaataac catcgtgaag tggcttttca tgtccttggc 360

ttttattgaa catagaaaca gccatgcaag cggtcttaaa ggctttatta catcattgtt 420

tcctaataaa gtcatgacag tctacctttg gaattaaagt gatacacaaa atgatggtct 480

gtgtcctctg gtgaactggt tccattcaga taacacctat tcatcatgac tatggtttca 540

tttttcttta gccttcaaga agctcagaac tgaattttaa attcagtcat ttaccaccaa 600

gataattgtg agtttttttt ttttaaaaaa actctaatgt tttatttcta gattttagtt 660

taaaccacgt tacatctata ttgacaataa atgtgctaaa ataaacttaa catgggtaat 720

gtgcctaggg aggcttgaat cccaatatgg caaaacaaac agaaaaccag caatttggta 780

tgctgtgctg tcttatattt tacagaaata aatgtgaaag tatatgacct atgttatgat 840

ctttaaagag tttgtagaaa cggaagagga ctcagagaaa agcaaccaaa acgaacagga 900

ggagaaggaa gaagaggcgg agaaggagga ggaagattgg agatagtatg cctttattgt 960

ctaaccccaa gtgtgttgaa gtactgtgac agccatcttg gcaattagaa atgagtatct 1020

aaaatttgga ctgttctaga aaaatctgtt acagagataa tgttaaagcc agattacagg 1080

aatcacagcc actaatatac aaataattac agaaaggctt tgaatgtgga ggtgttgttc 1140

tgatgactct attgatgtat ttgaaagcac tggagttact ccccaggaaa attacaacca 1200

gagttcccta aagcagaacc tccctgtttt ctattcattt gctgaatatc aaaagcattt 1260

tccagccaac agtacggcag agaatctcga ttgacccgag gaagaaccag tctgagttgc 1320
caagtcggat gaggaagcca actgccaaat cagctatcag gggaagttcc taacaccctg 1380
gtatcacttg gttagacagt ttaagccagt gagttttctg gtaggattgt tttttggttt 1440
tttttttttc cttttaatcc ttttttgcgt aacacatatc catttagtga tccgattaat 1500
ggccgggtca tctatcccca aaatacattc atttgtaaca cacctcccct tccaattttg 1560
cccatgattg cacagggttc gtggattaaa taaagtctat ccttagataa cccggttatg 1620
tttgtgaaga tttcctggga ctcaagacaa aatcctttga taacccttta gaatcacctc 1680
ttttatcggt cacgcggcca agggaacccg ggtctcccag ggtctctccc atcccccgcc 1740
cccgaggccc ctgccgcgca ggtgcgaaag acctcccagg ccactccggc agagagcgtg 1800
aagggggggg ccctgggagg ggcgggggcg ggggtgttgc taggcgacca cgctctccgc 1860
ccagaccggc ctacttcttc cgcagggggc gccatgggcc gagcccaggc tcgcgggcct 1920
cccggatcgg ccctttccg acttcttccc ctctgccggg cggtggcgca cgcccgtgac 1980
gtcacaggag gcggggccag cgcggctgcc gggtgccgga ggcgccattg gagccggctt 2040
ggcttgggag ccgtagctga agagttggat c 2071

<210> 6
<211> 25
<212> DNA
<213> PCR Primer

<400> 6
caccatggcg tgcggggcga cactg 25

<210> 7
<211> 21
<212> DNA
<213> PCR Primer

<400> 7
ggatacatag cttgttggcc t 21

<210> 8
<211> 20
<212> DNA
<213> PCR Primer

<400> 8
tgaagcggcc catggagttc 20

<210> 9
<211> 22
<212> DNA
<213> PCR Primer

<400> 9
ggtgggctgg tccttcttca tc 22

<210> 10
<211> 25
<212> DNA

<213> PCR Primer

<400> 10
agatctgatc caactcttca gctac 25

<210> 11
<211> 24
<212> DNA
<213> PCR Primer

<400> 11
gctagcccac attcactgtg caag 24